BDT update

Marcin Chrzaszcz

$\mathrm{B}^0 \to \mathrm{K}^* \mu^- \mu^+$ meeting, CERN
October 25, 2017

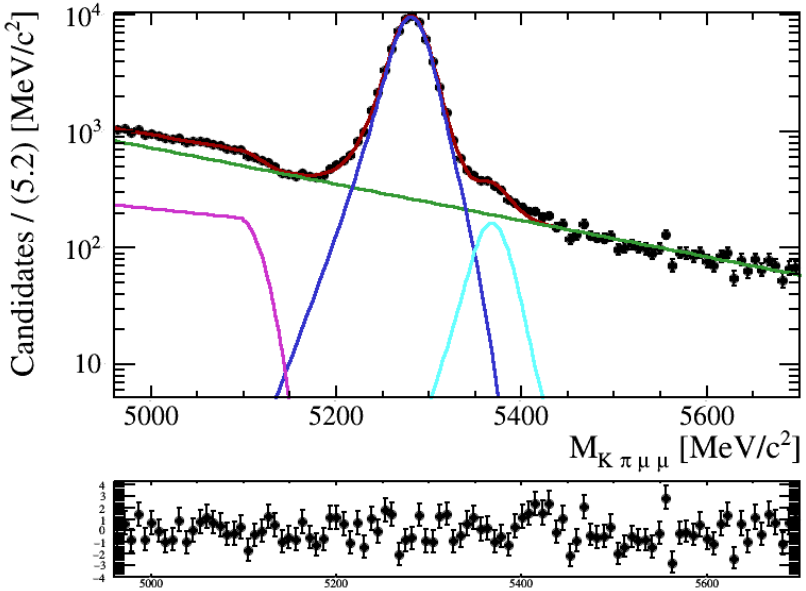
Strategy

Strategy

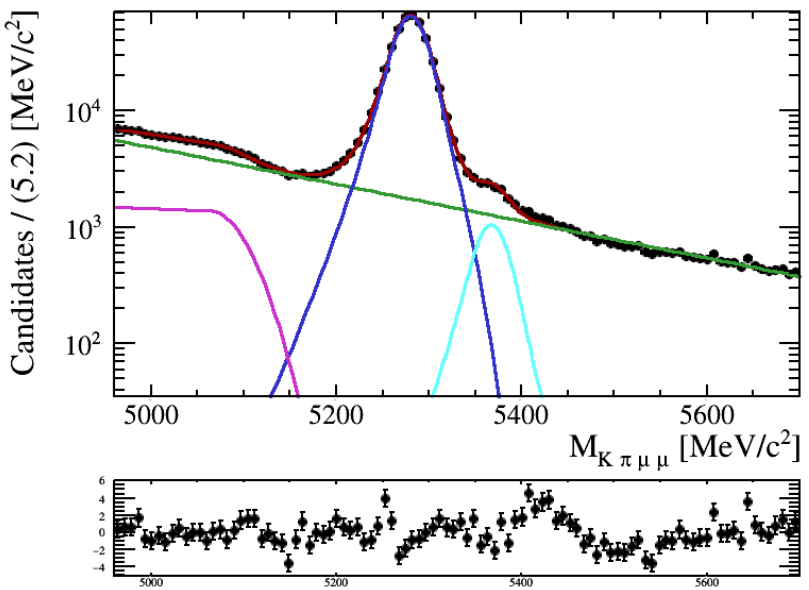
Keep things as close to Run1 as possible

Splot

2015

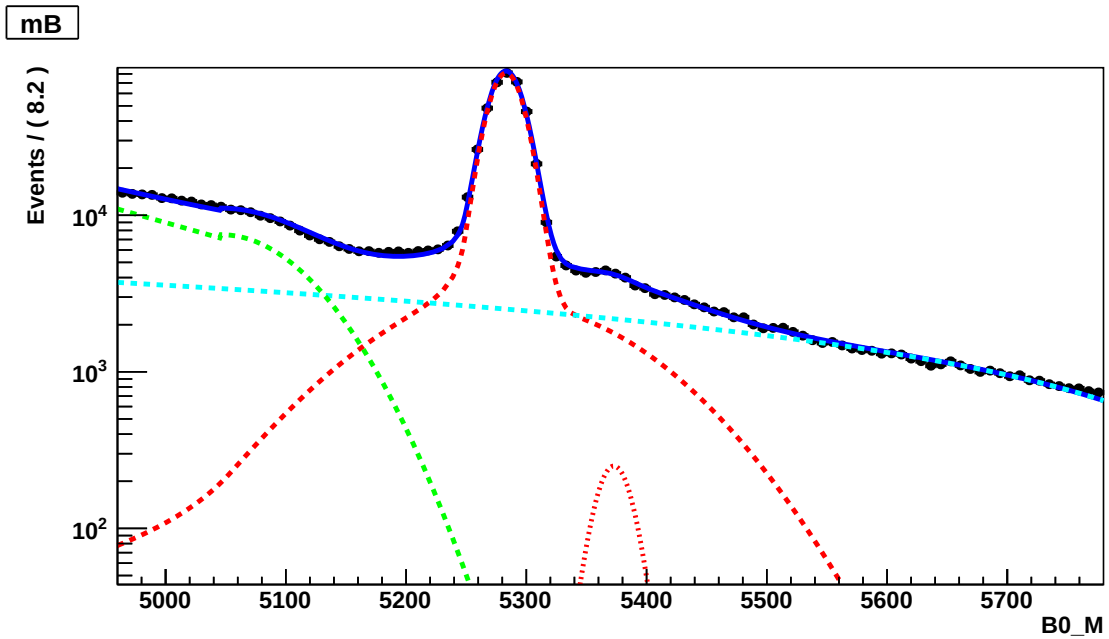


2016



Splot Problem

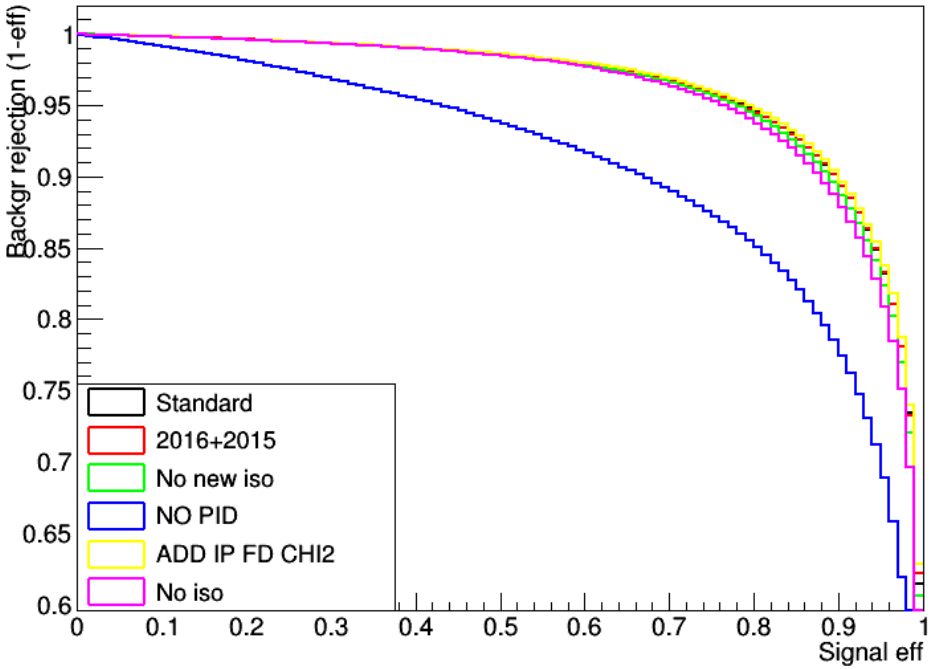
⇛ This is what we did in Run1:



⇛ We CANNOT compare the ROC curves to Run1.

⇛ Plan is to redo the splot in Run1 and then redo the ROC curves on that BDT..

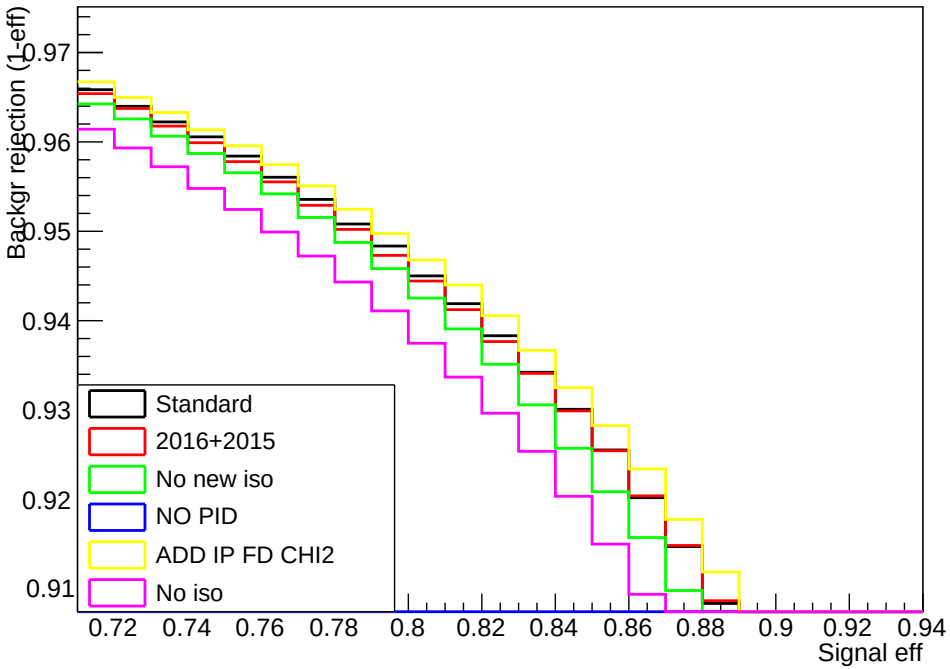
BDT possibilities



Lenend:
Standard: Run1 variables[1]
2016+2015: 2015 added to training.
NO new iso: Without the addition of new isolations.
NO PID: removed PID variables
ADD IP FD CHI2: 2 new variables: IPCHI2, FDCHI2
No iso: NO new isolations

[1] New isolations

BDT possibilities



Lenend:
Standard: Run1 variables[2]
2016+2015: 2015 added to training.
NO new iso: Without the addition of new isolations.
NO PID: removed PID variables
ADD IP FD CHI2: 2 new variables: IPCHI2, FDCHI2
No iso: NO new isolations

[2] New isolations

Conclusions

- I would stick to Run1 varaible and drop the new isolations.
- Need to redo Splot for Run1.
- Checking the standard flatness (need the PIDresapling).

Backup